

PART 70 OPERATING PERMIT OFFICE OF AIR QUALITY

**Jasper Municipal Electric Utility
15th and Knust Streets
Jasper, Indiana 47547**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T037-6695-00002	
Issued by: Original Signed by Janet McCabe Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: June 21, 2002 Expiration Date: June 21, 2007

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(21)]

The Permittee owns and operates a stationary electric utility generating station.

Responsible Official:	Mr. Windell Toby
Source Address:	15 th and Knust Streets, Jasper, Indiana 47547
Mailing Address:	800 McCrillus Street, Jasper, Indiana 47547
General Source Phone Number:	(812)482-6881
SIC Code:	4911
County Location:	Dubois
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD Rules; Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

- (1) One (1) spreader stoker coal-fired boiler, identified as Boiler #1, constructed in 1967, rated at 192 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by an electrostatic precipitator, emissions are measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a 176 foot (above grade) stack having a 96 inch exit diameter. This boiler also has a 60 mmBtu per hour natural gas, low NOx burner for start-up as a co-fire fuel with coal.
- (2) Facilities associated with the coal and ash handling system:
 - (a) One (1) 0.078 acre outdoor coal storage pile with a storage capacity of 810 tons, using covers for dust control. The method of handling is dumping, with a maximum annual throughput of 74,666 tons per year.
 - (b) One (1) ash storage silo with a storage capacity of 300 tons, using spray water for dust control. Ash is handled pneumatically. Particulate emissions are controlled by a baghouse. This has a maximum annual throughput of 7,540 tons per year.
- (3) Fugitive emissions from vehicle traffic. A combination of roads include paved asphalt or paved concrete and unpaved stone or unpaved gravel. The roadways traveled by the coal trucks are paved.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source does not currently have any insignificant activities, as defined in 326 IAC 2-7-1(21) that have applicable requirements.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B

GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit or of permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).

B.3 Enforceability [326 IAC 2-7-7]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.4 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.5 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.7 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)] [326 IAC 2-7-6(6)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality. [326 IAC 2-7-5(6)(E)]
- (c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1.

When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; or
 - (3) Denial of a permit renewal application.
- (b) Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act.
- (c) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (d) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

B.9 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification can cover multiple forms in one (1) submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.10 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)

77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent; and
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3).

The submittal by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

B.11 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)]
[326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee’s control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The PMP and the PMP extension notification do not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The submittal of the PMPs does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

B.12 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,
Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967.

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain

the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(10) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

B.13 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(7)]

B.14 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deletedby this permit.
- (b) All previous registrations and permits are superseded by this permit.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement

that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]
 - (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
 - (2) If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-7-3] [326 IAC 2-7-4]

If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by a reasonable deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application. [326 IAC 2-7-4(a)(2)(D) and (E)]
- (d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]

If IDEM, OAQ, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.18 Source Modification [326 IAC 1-2-42] [326 IAC 2-7-10.5]

- (a) The Permittee shall obtain approval as required by 326 IAC 2-7-10.5 from the OAQ prior to making any modification to the source. Pursuant to 326 IAC 1-2-42, "Modification" means one (1) or more of the following activities at an existing source:
 - (1) A physical change or change in the method of operation of any existing emissions unit that increases the potential to emit any regulated pollutant that could be emitted from the emissions unit, or that results in emissions of any regulated pollutant not previously emitted.
 - (2) Construction of one (1) or more new emissions units that have the potential to emit regulated air pollutants.
 - (3) Reconstruction of one (1) or more existing emission units that increases the potential to emit of any regulated air pollutant.
- (b) Any application requesting a source modification shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application shall be certified by the “responsible official” as defined by 326 IAC 2-7-1(34).

- (c) The Permittee shall also comply with the applicable provisions of 326 IAC 2-7-11 (Administrative Permit Amendments) or 326 IAC 2-7-12 (Permit Modification) prior to operating the approved modification.

B.19 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12] [40 CFR 72]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Pursuant to 326 IAC 2-7-11(b) and 326 IAC 2-7-12(a), administrative Part 70 permit amendments and permit modifications for purposes of the acid rain portion of a Part 70 permit shall be governed by regulations promulgated under Title IV of the Clean Air Act. [40 CFR 72]
- (c) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application shall be certified by the “responsible official” as defined by 326 IAC 2-7-1(34).

- (d) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.20 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1)(D)(i) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.21 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
 - (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms

of total emissions);

- (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the

Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-7-20(b), (c)(1), and (e)(2).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.22 Inspection and Entry [326 IAC 2-7-6] [IAC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy any records that must be kept under the conditions of this permit;
- (c) Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.

- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.2 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

C.3 Incineration [326 IAC 4-2][326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2. 326 IAC 9-1-2 is not federally enforceable.

C.4 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.5 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4(d), (e), and (f), and 326 IAC 1-7-5(d) are not federally enforceable.

C.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

The Permittee shall comply with the applicable requirements of 326 IAC 14-10, 326 IAC 18, and 40 CFR 61.140.

Testing Requirements [326 IAC 2-7-6(1)]

C.7 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.8 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.9 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.10 Maintenance of Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

-
- (a) The Permittee shall install, calibrate, maintain, and operate all necessary opacity monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

- (b) In the event that a breakdown of the continuous opacity monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.
- (c) Whenever the continuous opacity monitor is malfunctioning or will be down for calibration, maintenance, or repairs for a period of four (4) hours or more, a calibrated backup COM shall be brought online within four (4) hours of shutdown of the primary COM, if possible. If this is not possible, visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of one (1) hour beginning four (4) hours after the start of the malfunction or down time.
 - (1) If the reading period begins less than one hour before sunset, readings shall be performed until sunset. If the first required reading period would occur between sunset and sunrise, the first reading shall be performed as soon as there is sufficient daylight.
 - (2) Method 9 opacity readings shall be repeated for a minimum of one (1) hour at least once every four (4) hours during daylight operations, until such time that the continuous opacity monitor is back in operation.
 - (3) All of the opacity readings during this period shall be reported in the Quarterly Deviation and Compliance Monitoring Reports.
- (d) Nothing in this condition, or in Section D of this Permit, shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitor system pursuant to 326 IAC 3-5.

C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60 Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.12 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

- (a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.
- (b) Whenever a condition in this permit requires the measurement of a temperature, flow rate, or pH level, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.
- (c) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with

safe operating procedures.

- (b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ninety (90) days after the date of issuance of this permit.

The ERP does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

- (a) If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement.
- (b) The Permittee shall verify that a Risk Management Plan or a revised plan was prepared as required by 40 CFR 68 and submitted to IDEM, OAQ.

All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.15 Compliance Response Plan - Preparation, Implementation, Records and Reports
[326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:
- (1) Reasonable response steps that may be implemented in the event a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
- (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.

- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
 - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
 - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.
 - (4) Failure to take reasonable response steps shall constitute a violation of the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
 - (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.
 - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

[326 IAC 2-7-6]

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- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

- (a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:
- (1) Indicate estimated actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
 - (2) Indicate estimated actual emissions of other regulated pollutants (as defined by 326 IAC 2-7-1) from the source, for purposes of Part 70 fee assessment.
- (b) The annual emission statement covers the twelve (12) consecutive month time period starting January 1 and ending December 31. The annual emission statement must be submitted to:
- Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

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- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum

of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

Stratospheric Ozone Protection

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
- (d) Pursuant to 40 CFR 82, Subpart E (The Labeling of Products Using Ozone-Depleting

Substances), all containers in which a Class I or Class II substance is stored or transported and all products containing a Class I substance shall be labeled as required under 40 CFR Part 82.

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

One (1) spreader stoker coal-fired boiler, identified as Boiler #1, constructed in 1967, rated at 192 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by an electrostatic precipitator, emissions are measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a 176 foot (above grade) stack having a 96 inch exit diameter. This boiler also has a 60 mmBtu per hour natural gas, low NOx burner for start-up as a co-fire fuel with coal.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Particulate Matter (PM) [326 IAC 6-1-9]

Pursuant to 326 IAC 6-1-9 (Nonattainment area particulate limitations: Dubois County), particulate matter from the spreader stoker coal-fired boiler, shall in no case exceed 0.350 lb/mmBtu heat input and 265.6 tons/year.

D.1.2 Temporary Alternative Opacity Limitations [326 IAC 5-1-3]

(a) Pursuant to 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), the following applies:

- (1) When building a new fire in a boiler, or shutting down a boiler, opacity may exceed the applicable limit established in 326 IAC 5-1-2 and stated in Section C - Opacity. However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period. Opacity in excess of the applicable limit established in 326 IAC 5-1-2 shall not continue for more than two (2) six (6)-minute averaging periods in any twenty-four (24) hour period.

Operation of the electrostatic precipitator is not required during these times unless necessary to comply with these limits.

- (2) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2 and stated in Section C - Opacity. However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period and opacity in excess of the applicable limit shall not continue for more than one (1) six (6)-minute averaging periods in any sixty (60) minute period. The averaging periods shall not be permitted for more than three (3) six (6)-minute averaging periods in a twelve (12) hour period.

- (b) If this facility cannot meet the opacity limitations in (1) and (2) of this condition, the Permittee may submit a written request to IDEM, OAQ, for a temporary alternative opacity limitation in accordance with 326 IAC 5-1-3(d). The Permittee must demonstrate that the alternative limit is needed and justifiable.

D.1.3 Sulfur Dioxide (SO₂) [326 IAC 7-1.1]

Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations), the SO₂ emissions from Boiler No. 1 shall not exceed 6.0 pounds per million Btu (lbs/MMBtu) when combusting coal.

D.1.4 Operation Standards [326 IAC 2-1.1-5(a)(4)] [40 CFR 261] [329 IAC 13]

- (a) All coal burned, including coal treated with any additive, shall meet the ASTM definition of coal.
- (b) The burning of hazardous waste, as defined by 40 CFR 261, is prohibited in this facility. Any boiler tube chemical cleaning waste liquids, binding agent, or used oil combusted shall meet the toxicity characteristic requirements for non-hazardous waste.
- (b) Any boiler tube chemical cleaning waste liquids fired in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and any emission control devices.

Compliance Determination Requirements

D.1.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Within a two (2) year period from the issuance of this permit, compliance with the PM limitation in Condition D.1.1 shall be determined by a performance stack test utilizing methods as approved by the commissioner. This test shall be repeated at least once every two (2) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

D.1.7 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(A)] [326 IAC 2-7-6] [326 IAC 3] [326 IAC 7]

Pursuant to 326 IAC 7-2, the Permittee shall demonstrate that the sulfur dioxide emissions from Boiler No. 1 does not exceed six (6.0) pounds per mmBtu. Compliance shall be determined utilizing one of the following options:

- (a) Coal sampling and analysis shall be performed using one of the following procedures:
 - (1) Minimum Coal Sampling Requirements and Analysis Methods [326 IAC 3-7-2(b)]:
 - (A) The coal sample acquisition point shall be at a location where representative samples of the total coal flow to be combusted by the facility or facilities may be obtained. A single as-bunkered sampling station may be used to represent the coal to be combusted by multiple facilities using the same stockpile feed system.
 - (B) Coal shall be sampled at least three (3) times per day and at least one (1) time per eight (8) hour period unless no coal is bunkered during the preceding eight (8) hour period;
 - (C) Minimum sample size shall be five hundred (500) grams;
 - (D) Samples shall be composited and analyzed at the end of each calendar month;
 - (E) Preparation of the coal sample, heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d), and (e);
or
 - (2) Sample the coal pursuant to 326 IAC 3-7-2(a). Preparation of the coal sample, heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d) and (e);

- (3) Sample and analyze the coal pursuant to 326 IAC 3-7-3; or
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler in accordance with 326 IAC 3-6, utilizing the procedures in 40 CFR 60, Appendix A, Method 6, 6A, 6C, or 8. [326 IAC 7-2-1(d)]

A determination of noncompliance pursuant to either of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

- (c) Upon written notification to IDEM by a facility owner or operator, continuous emission monitoring data collected and reported pursuant to 326 IAC 3-5-1 may be used as the means for determining compliance with the emission limitations in 326 IAC 7-2. Upon such notification, the other requirements of 326 IAC 7-2 shall not apply. [326 IAC 7-2-1(g)]

D.1.8 Operation of Electrostatic Precipitator (ESP) [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule or in this permit, the electrostatic precipitator shall be operated at all times that boiler #1 vented to the ESP is in operation.

D.1.9 Cleaning Waste Analysis [326 IAC 2-1.1-5(a)(4)] [40 CFR 261]

The Permittee shall use appropriate test methods as listed in 40 CFR Part 261 to analyze all boiler chemical cleaning wastes that will be burned, to determine the concentration of the compounds listed in the Operation Standards in this D section.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.10 Preventive Inspections [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) The following inspections shall be performed according to the indicated schedules, in accordance with the Preventive Maintenance Plan prepared in accordance with Section B - Preventive Maintenance Plan:
 - (1) Plate and electrode alignment, every major maintenance outage, but no less than every 2 years;
 - (2) ESP TR set components, performed whenever there is an outage of any nature lasting more than three days, unless such inspections have been performed within the last six months. At a minimum, the following inspections shall be performed:
 - (A) Internal inspection of shell corrosion (i.e., doors, hatches, insulator housings, roof area).
 - (B) Effectiveness of rapping (i.e., buildup of dust on distribution plates and turning vanes).
 - (C) Gas distribution (i.e., buildup of dust on distribution plates and turning vanes).
 - (D) Dust accumulation (i.e., buildup of dust on shell and support members that could result in grounds or promote advanced corrosion).
 - (E) Major misalignment of plates (i.e., visual check of plate alignment).
 - (F) Rapper, vibrator and TR set control cabinets (motors, lubrication, etc.)

- (G) Rapper assembly (i.e., loose bolts, ground wires, water in air lines, solenoids, etc.)
 - (H) Vibrator and rapper seals (i.e., air in-leakage, wear, deterioration)
 - (I) TR set controllers (i.e., low voltage trip point, over current trip point, spark rate, etc.)
 - (j) Vibrator air pressure settings
- (3) Air and water infiltration, once per month. The recommended method for this inspection is for audible checks around ash hoppers/hatches, duct expansion joints, and areas of corrosion.
- (b) Reasonable response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports for any improper or abnormal conditions found during an inspection. Discovery of an abnormal or improper condition is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records and Reports, shall be considered a violation of this permit.

D.1.11 Transformer-Rectifier (T-R) Sets [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) The ability of the ESP to control particulate emissions shall be monitored once per shift, when the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the transformer-rectifier (T-R) sets.
- (b) Reasonable response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports whenever the percentage of T-R sets in service falls below 90 percent. T-R set failure resulting in less than 90 percent availability is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.1.12 Opacity Readings [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) Appropriate response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports whenever the opacity exceeds 15 percent for three (3) consecutive six (6) minute averaging periods. In the event of opacity exceeding 15 percent, response steps will be taken such that the cause(s) of the excursion are identified and corrected and opacity levels are brought back below 15 percent. Examples of expected response steps include, but are not limited to, boiler loads being reduced and ESP T-R sets being returned to service.
- (b) Opacity readings in excess of 15 percent but not exceeding the opacity limit for the unit are not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.13 Record Keeping Requirements

- (a) To document compliance with Condition D.1.3 and D.1.7 the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained shall be sufficient to demonstrate compliance using a thirty (30) day rolling weighted average and shall be complete and sufficient to establish compliance with the SO₂ limit established in Condition D.1.3.

- (1) Calendar dates covered in the compliance determination period;
 - (2) Actual coal usage since last compliance determination period;
 - (3) Sulfur content and heat content;
 - (4) Sulfur dioxide emission rates.
- (b) Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.
- (c) To document compliance with Conditions D.1.1, D.1.2, D.1.5, D.1.6 and D.1.9, the Permittee shall maintain records in accordance with (1) through (5) below. Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and in Conditions D.1.1 and D.1.2.
- (1) Data and results from the most recent stack test;
 - (2) All continuous emissions monitoring data, pursuant to 326 IAC 3-5;
 - (3) All parametric monitoring readings;
 - (4) All preventive maintenance measures taken; and
 - (5) All response steps taken and the outcome for each.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.14 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.3 shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

Facilities associated with the coal and ash handling system:

- (1) One (1) 0.078 acre outdoor coal storage pile with a storage capacity of 810 tons, using covers for dust control. The method of handling is dumping, with a maximum annual throughput of 74,666 tons per year.
- (2) One (1) ash storage silo with a storage capacity of 300 tons, using spray water for dust control. Ash is handled pneumatically. Particulate emissions are controlled by a baghouse. This has a maximum annual throughput of 7,540 tons per year.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Particulate Matter Emissions Limitations [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2, the ash handling operation shall not allow or permit discharge to the atmosphere of any gases which contain particulate matter in excess of 0.03 grain per dry standard cubic foot (dscf).

D.2.2 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

D.2.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Determination Requirements

D.2.4. Particulate Matter (PM)

Except as otherwise provided by statute or rule in this permit, the baghouses shall be in operation at all times when the ash handling operations are in operation and exhausting to the outside atmosphere.

D.2.5 Fugitive Dust Emissions

The wet spray for dust control shall be conducted when the ash silo is unloaded.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.6 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) Visible emission notations of the baghouse stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If visible emissions are observed crossing the property line or boundaries of the property, right-of-way, or easement on which the source is located, the Permittee shall take reasonable steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports.
- (f) If abnormal emissions are observed at any baghouse exhaust, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan-Preparation, Implementation, Records, and Reports. Observation of an abnormal emission is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.2.7 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the ash load-in system at least once per shift when the ash load-in is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records and Reports, shall be considered a violation of this permit.
- (b) The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, and shall be calibrated at least once every six (6) months.

D.2.8 Broken or Failed Bag or Mechanical Exhauster Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

In the event that bag or mechanical exhauster failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B - Emergency Provisions). Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports shall be considered a violation of this permit.
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

D.2.9 Baghouse and Mechanical Exhauster Inspections [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) An inspection shall be performed each calendar quarter of all bags and the mechanical exhauster controlling the PM emissions from the ash handling operations when venting to the atmosphere. A baghouse and mechanical exhauster inspection shall be performed within three months redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.
- (b) If an abnormal or improper condition is found during an inspection, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Discovery of an abnormal or improper condition is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.10 Record Keeping Requirements

- (a) To document compliance with Condition D.2.6, the Permittee shall maintain records of the visible emission notations of the baghouse exhaust.
- (b) To document compliance with Conditions D.2.7 and D.2.9, the Permittee shall maintain the following:
 - (1) Records of the differential pressure readings across the baghouses;
 - (2) Records of the results of the baghouse inspections;
 - (3) Documentation of the dates that the baghouse vents are redirected; and
 - (4) All response steps taken and the outcome for each.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Air Quality
COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Jasper Municipal Electric Utility
Source Address: 15th and Knust Streets, Jasper, Indiana 47547
Mailing Address: 800 McCrillus Street, Jasper, Indiana 47547
Part 70 Permit No.: T037-6695-00002

**This certification shall be included when submitting monitoring, testing reports/results
or other documents as required by this permit.**

Please check what document is being certified:

9 Annual Compliance Certification Letter

9 Test Result (specify) _____

9 Report (specify) _____

9 Notification (specify) _____

9 Affidavit (specify) _____

9 Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Telephone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

**P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Jasper Municipal Electric Utility
Source Address: 15th and Knust Streets, Jasper, Indiana 47547
Mailing Address: 800 McCrillus Street, Jasper, Indiana 47547
Part 70 Permit No.: T037-6695-00002

This form consists of 2 pages

Page 1 of 2

- 9** This is an emergency as defined in 326 IAC 2-7-1(12)
- ☐ The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
 - ☐ The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Telephone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

**PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Jasper Municipal Electric Utility
Source Address: 15th and Knust Streets, Jasper, Indiana 47547
Mailing Address: 800 McCrillus Street, Jasper, Indiana 47547
Part 70 Permit No.: T037-6695-00002

Months: _____ to _____ Year: _____

Page 1 of 2

This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: _____

Title/Position: _____

Date: _____

Telephone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

Part 70 Quarterly Report

Source Name: Jasper Municipal Electric Utility
Source Address: 15th and Knust Streets, Jasper, Indiana 47547
Mailing Address: 800 McCrillus Street, Jasper, Indiana 47547
Part 70 Permit No.: T037-6695-00002
Facility: Boiler #1
Parameter: SO₂ Emission Rate
Limit: Boiler #1 shall not exceed 6.0 pounds per million Btu (lbs/mmBtu) when
combusting coal.

YEAR: _____

Month	Column 1	Column 2	Column 3	Column 4	Column 5
	Coal Consumption	Sulfur Content	Coal Heat Content	Ash Content	SO ₂ Emission Rate
Month 1					
Month 2					
Month 3					

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Telephone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Quality

Addendum to the Technical Support Document for a Part 70 Operating Permit

Source Name: Jasper Municipal Electric Utility
 Source Location: 15th and Knust Streets
 County: Dubois
 SIC Code: 4911
 Operation Permit No.: T037-6695-00002
 Permit Reviewer: Laura M. Groom

On December 31, 2001, the Office of Air Quality (OAQ) had a notice published in The Herald, Jasper, Indiana, stating that Jasper Municipal Electric Utility had applied for a Part 70 Operating Permit to operate an electric generating station. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Upon further review, the OAQ has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted). The Table Of Contents has been modified to reflect these changes.

Changes one (1) through six (6) below were made to incorporate the Article 2 rule revisions that were adopted on October 3, 2001 and became effective on January 19th, 2002. For more information about this rulemaking, refer to the October 2001 Air Pollution Control Board Packet which can be found on the internet at <http://www.state.in.us/idem/air/rules/apcb/packets/index.html>. The rule revisions were published in the February 1, 2002 Indiana Register which can be found on the internet at <http://www.IN.gov/legislative/register/index-25.html>.

- (1) Section B.2 (Permit Term) has a new rule cite added.

B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit or of permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).

- (2) Condition B.12 (Emergency Provisions) (a)(b) and (g) have been revised to reflect rule changes to 326 IAC 2-7-16. This section of the rule is now consistent with 40 CFR 70.6(g) and provides an affirmative defense to an action brought for non-compliance with technology based emission limitations only.

B.12 Emergency Provisions [326 IAC 2-7-16]

-
- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, ~~except as provided in 326 IAC 2-7-16.~~

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a ~~health-based or~~ technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

(g) ~~Operations may continue during an emergency only if the following conditions are met:~~

(+1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(2) ~~If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:~~

(A) ~~The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and~~

(B) ~~Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value.~~

~~Any operation shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.~~

(3) Condition B.14 (Multiple Exceedances) has been deleted, because 326 IAC 2-7-5(1)(E) has been repealed, because it conflicted with 40 CFR 70.6(a)(6).

~~B.14 Multiple Exceedances [326 IAC 2-7-5(1)(E)]~~

~~Any exceedance of a permit limitation or condition contained in this permit, which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter established to detect or assure compliance with that limit or condition, both arising out of the same act or occurrence, shall constitute a single potential violation of this permit.~~

(4) Condition B.14 (Prior Permits Superseded) was added to the permit to implement the intent of the new rule 326 IAC 2-1.1-9.5.

B.14 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) **All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either**

(1) **incorporated as originally stated,**

(2) **revised, or**

(3) **deleted**

by this permit.

(b) All previous registrations and permits are superseded by this permit.

- (5) Removed (b) from B.13 Permit Shield. Since B.14 Prior Permits Superseded has been added to the permit, it is not necessary for this statement to be in this condition.

B.13 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

~~(b) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits. All previously issued operating permits are superseded by this permit.~~

- (6) C.15 Compliance Response Plan - Preparation, Implementation, Records and Reports, (c)(2) "administrative amendment" has been revised to "minor permit modification," because 326 IAC 2-7-11(a)(7) has been repealed.

C.15 Compliance Response Plan - Preparation, Implementation, Records and Reports
[326 IAC 2-7-5] [326 IAC 2-7-6]

(c) The Permittee is not required to take any further response steps for any of the following reasons:

- (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for ~~an administrative amendment~~ **a minor permit modification** to the permit, and such request has not been denied.
- (7) The C.5, Operation of Equipment condition was mistakenly left in the Table of Contents. Therefore, the following is being deleted to correct the mistake. All other C conditions have been changed accordingly in the permit.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

- C.1 Opacity [326 IAC 5-1]
- C.2 Open Burning [326 IAC 4-1] [IC 13-17-9]
- C.3 Incineration [326 IAC 4-2] [326 IAC 9-1-2]
- C.4 Fugitive Dust Emissions [326 IAC 6-4]
- ~~C.5 Operation of Equipment [326 IAC 2-7-6(6)]~~

- (8) This title in the Table of Contents is being changed so that it is the same as the title in Section D.1.2 of this permit.

Emission Limitations and Standards [326 IAC 2-7-5(15)]

- D.1.1 Particulate Matter (PM) [326 IAC 6-1-9]
- D.1.2 **Temporary Alternative** Opacity Exemption [326 IAC 5-1-3]

- (9) The D.1.13, Visible Emission Notations condition is not included in the permit so the following conditions in the Table of Contents are being modified as listed below.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.10 Preventive Inspections

D.1.11 Transformer-Rectifier (T-R) Sets

D.1.12 Opacity Readings

~~D.1.13 Visible Emissions Notations~~

Record Keeping and Reporting Requirements [326 IAC 2-7-6(3)] [326 IAC 2-7-19]

~~D.1.14~~ **D.1.13** Record Keeping Requirements

~~D.1.15~~ **D.1.14** Reporting Requirements

- (10) The following changes were made to the boiler description to provide a more accurate description of the equipment.

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]
[326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

- (1) One (1) spreader stoker coal-fired boiler, identified as Boiler #1, constructed in 1967, rated at 192 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by ~~a multiple cyclone and an~~ electrostatic precipitator, emissions are measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a 176 foot (above grade) stack having a 96 inch exit diameter. This boiler also has a 60 mmBtu per hour natural gas, low NOx burner for start-up **as a co-fire fuel with coal.**
- (11) A.2(2) Emission Units and Pollution Control Equipment and Section D.2 Facility Description have been changed to more accurately reflect the equipment.
- (2) Facilities associated with the coal and ash handling system:
- (a) One (1) 0.078 acre outdoor coal storage pile with a storage capacity of 810 tons, using covers for dust control. The method of handling is dumping, with a maximum annual throughput of 74,666 tons per year.
- (b) One (1) ash storage silo with a storage capacity of 300 tons, using spray water for dust control. ~~The method of handling is piping~~ **Ash is handled pneumatically. Particulate emissions are controlled by a baghouse fabric filter where hot air is exhausted.** This has a maximum annual throughput of 7,540 tons per year. ~~A pulsejet baghouse is used to control the ash emissions.~~
- (12) The C.12, Maintenance of Opacity Monitoring Equipment condition has been changed to number C.10 because of deletions. Also, the condition has been changed to provide language, determined to be more appropriate for the Maintenance of Opacity Monitoring Equipment condition.

C.1210 Maintenance of Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) The Permittee shall install, calibrate, maintain, and operate all necessary opacity monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.
 - (b) In the event that a breakdown of the continuous opacity monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.
 - (c) Whenever the continuous opacity monitor is malfunctioning or will be down for **calibration, maintenance, or repairs** ~~or adjustments~~ for a period of four (4) hours or more, a calibrated backup COM shall be brought online within four (4) hours of shutdown of the primary COM, if possible. If this is not possible, visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of one (1) hour beginning four (4) hours after the start of the malfunction or down time.
 - (1) If the reading period begins less than one hour before sunset, readings shall be performed until sunset. If the first required reading period would occur between sunset and sunrise, the first reading shall be performed as soon as there is sufficient daylight.
 - (2) Method 9 opacity readings shall be repeated for a minimum of one (1) hour at least once every four (4) hours during daylight operations, until such time that the continuous opacity monitor is back in operation.
 - (3) All of the opacity readings during this period shall be reported in the ~~q~~**Quarterly** Deviation and Compliance Monitoring Reports.
 - (d) Nothing in this condition, **or in Section D of this permit**, shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitor system pursuant to 326 IAC 3-5.
- (13) The C.11, Maintenance of Emission Monitoring Equipment condition has been deleted from the Table of Contents because the source does not use a Continuous Emissions Monitor, only a Continuous Opacity Monitor to monitor opacity. All of the C conditions in the table of contents have been renumbered to reflect this change.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.9	Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]
C.10	Maintenance of Emission Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]
C.12 C.10	Maintenance of Opacity Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]
C.13 C.11	Monitoring Methods [326 IAC 3]
C.14 C.12	Pressure Gauge Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

- (14) The C.11, Maintenance of Emission Monitoring Equipment condition has been deleted from the permit because the source does not use a Continuous Emissions Monitor, only a Continuous Opacity Monitor to monitor opacity emissions.

~~C.11 Maintenance of Emission Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]~~

- ~~(a) The Permittee shall install, calibrate, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.~~
- ~~(b) In the event that a breakdown of the emission monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented as required in Section D of this permit until such time as the monitoring equipment is back in operation.~~
- ~~(c) Nothing in this condition shall excuse the Permittee from complying with the requirements to operate emission monitoring equipment pursuant to 40 CFR 60.334(a).~~

- (15) Section D.1 the description has been changed to provide a more accurate description of the equipment.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

One (1) spreader stoker coal-fired boiler, identified as Boiler #1, constructed in 1967, rated at 192 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by a ~~multiple cyclone and an~~ electrostatic precipitator, emissions are measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a 176 foot (above grade) stack having a 96 inch exit diameter. This boiler also has a 60 mmBtu per hour natural gas, low NOx burner for start-up **as a co-fire fuel with coal.**

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

- (16) The D.1.6, Testing Requirements condition has been revised to delete the reference to Section C in the first sentence and the beginning of the 2nd sentence.

~~D.1.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]~~

~~Within a two (2) year period from the issuance of this permit, compliance with the PM limitation in Condition D.1.1 shall be determined by a performance stack test conducted in accordance with Section C - Performance Testing. The Permittee shall perform PM testing utilizing Methods 5 or 17 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner. This test shall be repeated at least once every two (2) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.~~

- (17) The D.1.9, Cleaning Waste Analysis condition has been revised to include rule cites.

~~D.1.9 Cleaning Waste Analysis [326 IAC 2-1.1-5(a)(4)] [40 CFR 261]~~

~~The Permittee shall use appropriate test methods as listed in 40 CFR Part 261 to analyze all boiler chemical cleaning wastes that will be burned, to determine the concentration of the compounds listed in the Operation Standards in this D section.~~

- (18) The D.1.10, Preventive Inspections condition has been revised to give more guidance to the Source for conducting these inspections.

D.1.10 Preventive Inspections [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) The following inspections shall be performed according to the indicated schedule in accordance with the Preventive Maintenance Plan prepared in accordance with Section B - Preventive Maintenance Plan:
- (1) Plate and electrode alignment, **every major maintenance outage, but no less than every 2 years;**
 - (2) **ESP TR set components /controller failure-, performed whenever there is an outage of any nature lasting more than three days, unless such inspections have been performed within the last six months. At a minimum, the following inspections shall be performed:**
 - (a) **Internal inspection of shell corrosion (i.e., doors, hatches, insulator housings, roof area).**
 - (b) **Effectiveness of rapping (i.e., buildup of dust on distribution plates and turning vanes).**
 - (c) **Dust accumulation (i.e., buildup of dust on shell and support members that could result in grounds or promote advanced corrosion).**
 - (d) **Major misalignment of plates (i.e., visual check of plate alignment).**
 - (e) **Rapper, vibrator and TR set control cabinets (motors, lubrication, etc.)**
 - (f) **Rapper assembly (i.e., loose bolts, ground wires, water in air lines, solenoids, etc.)**
 - (g) **Vibrator and rapper seals (i.e., air in-leakage, wear, deterioration)**
 - (h) **TR set controllers (i.e., low voltage trip point, over current trip point, spark rate, etc.)**
 - (i) **Vibrator air pressure settings**
 - (3) **Air and water infiltration, once per month. The recommended method for this inspection is for audible checks around ash hoppers/hatches, duct expansion joints, and areas of corrosion.**
- (b) ~~Plate and electrode alignment measurements shall be taken whenever there is an outage of any nature lasting more than three days unless such measurements have been taken within the past six months.~~
- (c) ~~All other inspections shall be made whenever there is an outage of any nature lasting more than three days unless such measurements have been taken within the past twelve months.~~
- (d)(b) **Reasonable** ~~Appropriate response steps for any discrepancies in the above list found during the inspection shall be taken in accordance~~ **shall be taken in accordance** with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports **for any improper or abnormal conditions found during an inspection. Discovery of an abnormal or improper condition is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance**

Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

- (19) The D.1.11, Transformer-Rectifier (T-R) Sets Condition has been revised to delete the (c) and (d) portions of the condition and to provide language determined to be more appropriate for Transformer-Rectifier (T-R) Sets.

D.1.11 Transformer-Rectifier (T-R) Sets [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) The ability of the ESP to control particulate emissions shall be monitored once per shift, when the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the transformer-rectifier (T-R) sets.
- (b) **Reasonable** ~~Appropriate~~ response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports whenever the percentage of T-R sets in service falls below 90 percent. ~~In the event of T-R set failure resulting in less than 90 percent availability, the Permittee shall take steps as detailed in the Compliance Response Plan for the unit.~~ **T-R set failure resulting in less than 90 percent availability is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.**
- (b) ~~Available T-R sets shall be operated at voltage and current levels consistent with the ESP manufacturer's specifications.~~
- (c) ~~The instrument used for determining the T-R set voltage shall be subject to approval by IDEM, OAG, and shall be calibrated at least once every six (6) months.~~

- (20) The D.1.12, Opacity Readings condition has been revised. The language that stated if the opacity level went above 30 percent the boiler would be shut down has been replaced with language that states if the opacity goes above 15 percent then response steps will be taken such that the causes of the excursion are identified. Also, the (b) portion of this condition was deleted and replaced with the bolded language below. These changes were made to provide language determined to be more appropriate for Opacity Readings.

D.1.12 Opacity Readings [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) Appropriate response steps shall be taken in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports whenever the opacity exceeds 15 percent for three (3) consecutive six (6) minute averaging periods. In the event of opacity exceeding **15 percent, response steps will be taken such that the causes of the excursion are identified and corrected and opacity levels are brought back below 15 percent. Examples of expected response steps include but are not limited to, boiler loads being reduced and ESP T-R sets being returned to service** ~~30 percent, the boiler will be shut down, if necessary, so that the T-R sets or the ESP can be repaired or the causes leading to T-R set outages or ESP malfunction can be corrected.~~
- (b) ~~The instrument used for determining the T-R set voltage shall be subject to approval by~~

~~IDEM, OAQ, and shall be calibrated at least once every six (6) months.~~

Opacity readings in excess of 15 percent but not exceeding the opacity limit for the unit are not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

- (21) The Multiclone and Electrostatic Precipitator Inspections condition has been deleted because it was determined during the public notice period that it was redundant since D.1.10 already states that the ESP inspections shall be performed.

~~D.1.12 Multiclone and Electrostatic Precipitator Inspections~~

~~An inspection shall be performed each calendar quarter of all equipment controlling the boilers when venting to the atmosphere. A multiclone and electrostatic precipitator inspections shall be performed every three months. All defective equipment shall be replaced.~~

- (22) The D.1.13, Record Keeping Requirements condition has been revised, the changes are shown below with strikeouts to show deletion and bolded language to show what was added. These changes were made to provide updated language, determined to be more appropriate for Record Keeping Requirements.

D.1.13 Record Keeping Requirements

- (a) To document compliance with **Condition D.1.3 and D.1.7** ~~Section C - Opacity and Conditions D.1.4, D.1.5, D.1.6 and D.1.8~~ the Permittee shall maintain records in accordance with (1) through (54) below. Records maintained (2) and (3) ~~shall be taken daily and shall be complete and sufficient to establish~~ **demonstrate compliance using a thirty (30) day rolling weighted average and shall be complete and sufficient to establish compliance** with the SO₂ limit established in **Condition D.1.3** ~~Opacity, PM and SO₂ limits established in Section C - Opacity and Conditions D.1.1, D.1.2 and D.1.3.~~

- (1) ~~Data and results from the most recent stack test;~~
- (2) ~~All coal sampling and analysis data, pursuant to 326 IAC 3-7 and 326 IAC 7-1.1;~~
- (3) ~~All parametric monitoring readings;~~
- (4) ~~All preventive maintenance measures taken and the outcome for each; and~~
- (5) ~~All response steps taken and the outcome for each.~~
- (1) **Calendar dates covered in the compliance determination period;**
- (2) **Actual coal usage since last compliance determination period;**
- (3) **Sulfur content and heat content;**
- (4) **Sulfur dioxide emission rates.**

- (b) Pursuant to 326 IAC 3-7-5(a), the Permittee shall develop a standard operating

procedure (SOP) to be followed for sampling, handling, analysis, quality control, quality assurance, and data reporting of the information collected pursuant to 326 IAC 3-7-2 through 326 IAC 3-7-4. In addition, any revision to the SOP shall be submitted to IDEM, OAQ.

- (c) **To document compliance with Conditions D.1.1, D.1.2, D.1.5, D.1.6 and D.1.9, the Permittee shall maintain records in accordance with (1) through (5) below. Records shall be complete and sufficient to establish compliance with the limits established in Section C - Opacity and in Conditions D.1.1 and D.1.2.**

- (1) **Data and results from the most recent stack test;**
- (2) **All continuous emissions monitoring data, pursuant to 326 IAC 3-5;**
- (3) **All parametric monitoring readings;**
- (4) **All preventive maintenance measures taken; and**
- (5) **All response steps taken and the outcome for each.**

- ~~(b)~~(d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

- (23) The D.2.6, Visible Emissions Notations condition has been revised, the changes are shown below with strikeouts to show deletion and bolded language to show what was added. These changes were made to add rule cites and to provide updated language, determined to be more appropriate for Visible Emissions Notations.

D.2.6 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) Visible emission notations of the baghouse stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation. ~~not counting startup or shut down time.~~
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) **If visible emissions are observed crossing the property line or boundaries of the property, right-of-way, or easement on which the source is located, the Permittee shall take reasonable response steps** ~~The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records and Reports. , shall~~

~~be considered a violation of this permit.~~

- (f) **If abnormal emissions are observed at any baghouse exhaust, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Observation of an abnormal emission is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.**

- (24) The D.2.7, Baghouse Parametric Monitoring condition has been revised, the changes are shown below with strikeouts to show deletion and bolded language to show what was added. These changes were made to provide updated language, determined to be more appropriate for Baghouse Parametric Monitoring.

D.2.7 Baghouse Parametric Monitoring **[326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

- (a) The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the ash load-in system at least once per shift when the ash load-in is in operation and venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of the range of 1.0 to 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports, shall be considered a violation of this permit. ~~The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated at least once every six (6) months.~~
- (b) **The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, and shall be calibrated at least once every six (6) months.**

- (25) The D.2.8, Broken or Failed Bag or Mechanical Exhauster Detection condition has been revised, the changes are shown below with strikeouts to show deletion and bolded language to show what was added. These changes were made to provide updated language, determined to be more appropriate for Broken or Failed Bag or Mechanical Exhauster Detection and to add rule cites.

D.2.8 Broken or Failed Bag or Mechanical Exhauster Detection **[326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**
In the event that bag or mechanical exhauster failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B - Emergency Provisions). Within eight (8) hours of the determination of failure, response steps

according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports shall be considered a violation of this permit.

- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

- (26) The D.2.9, Baghouse and Mechanical Exhauster Inspections has been revised, the changes are shown below with strikeouts to show deletion and bolded language to show what was added. These changes were made to provide updated language, determined to be more appropriate for Baghouse and Mechanical Exhauster Inspections and to add rule cites.

D.2.9 Baghouse and Mechanical Exhauster Inspections [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) An inspection shall be performed each calendar quarter of all bags and the mechanical exhauster controlling the **PM emissions from the** ash handling operations when venting to the atmosphere. A baghouse and mechanical exhauster inspection shall be performed within three months redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.
- (b) **If an abnormal or improper condition is found during an inspection, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Discovery of an abnormal or improper condition is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.**

- (27) The D.2.10, Record Keeping Requirements condition has been revised, the changes are shown below with strikeouts to show deletion and bolded language to show what was added. These changes were made to provide updated language, determined to be more appropriate for Record Keeping Requirements.

D.2.10 Record Keeping Requirements

- (a) **To document compliance with Condition D.2.6, the Permittee shall maintain records of the visible emission notations of the baghouse exhaust.**
- ~~(a)(b)~~ **To document compliance with Conditions D.2.6, the Permittee shall maintain records of visible emission notations of the baghouse and mechanical exhauster stack exhaust once per shift. D.2.7 and D.2.9, the Permittee shall maintain the following:**
 - (1) **Records of the differential pressure readings across the baghouses;**

- (2) **Records of the results of the baghouse inspections;**
 - (3) **Documentation of the dates that the baghouse vents are redirected; and**
 - (4) **All response steps taken and the outcome for each.**
- (b) ~~To document compliance with Condition D.2.7, the Permittee shall maintain once per shift records of the differential pressure during normal operation when venting to the atmosphere.~~
- (c) ~~To document compliance with Condition D.2.9, the Permittee shall maintain records of the results of the inspections required under Condition D.2.9 and the dates the vents are redirected.~~
- (d) (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.
- (28) The Part 70 Quarterly report has been revised, as shown below, to add the facility and limit.

Part 70 Quarterly Report

Source Name: Jasper Municipal Electric Utility
Source Address: 15th and Knust Streets, Jasper, Indiana 47547
Mailing Address: 800 McCrillus Street, Jasper, Indiana 47547
Part 70 Permit No.: T037-6695-00002
Facility: **Boiler #1**
Parameter: SO₂ Emission Rate
Limit: **Boiler #1 shall not exceed 6.0 pounds per million Btu (lbs/mmBtu) when combusting coal.**

Technical Support Document

The Office of Air Quality prefers that the Technical Support Document reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the public notice are documented in this Addendum to the Technical Support Document. That accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision.

- (29) The Potential to Emit table in the TSD contained some incorrect numbers. The more simple way to document the potential to emit is shown below. This more simple or general way is documented to avoid further discrepancy or delay. The following serves as documentation for what the TSD should read:

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA.”

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential Emissions (tons/year)
PM	3,535.6 Greater than 250
PM-10	1,599.5 Greater than 250
SO ₂	2,084.3 Greater than 250
VOC	3.6 Less than 250
CO	204.9 Less than 250
NO _x	415.3 Greater than 250

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

- (30) The spreadsheets used to calculate the potential to emit for the boiler and the coal/ash handling have been changed to more accurately reflect true potential to emit. Please see appendix A for documentation on what the spreadsheets should read.

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Part 70 Operating Permit

Source Background and Description

Source Name: Jasper Municipal Electric Utility
Source Location: 15th and Knust Streets, Jasper, Indiana 47547
County: Dubois
SIC Code: 4911
Operation Permit No.: T037-6695-00002
Permit Reviewer: Laura M. Groom

The Office of Air Quality (OAQ) has reviewed a Part 70 permit application from Jasper Municipal Electric Utility relating to the operation of an electric generating station.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (1) One (1) spreader stoker coal-fired boiler, identified as Boiler #1, constructed in 1967, rated at 192 million Btu per hour heat input, used to generate electricity. Particulate emissions are controlled by a multiple cyclone and electrostatic precipitator, emissions are measured with a continuous opacity monitor. Controlled emissions are exhausted to the atmosphere through a 176 foot (above grade) stack having a 96 inch exit diameter. This boiler also has a 60 mmBtu per hour natural gas, low NO_x burner for start-up.
- (2) Facilities associated with the coal and ash handling system:
 - (a) One (1) 0.078 acre outdoor coal storage pile with a storage capacity of 810 tons, using covers for dust control. The method of handling is dumping, with a maximum annual throughput of 74,666 tons per year.
 - (b) One (1) ash storage silo with a storage capacity of 300 tons, using spray water for dust control. The method of handling is piping through a fabric filter where hot air is exhausted. This has a maximum annual throughput of 7,540 tons per year. A pulsejet baghouse is used to control ash emissions.
- (3) Fugitive emissions from vehicle traffic. A combination of roads include paved asphalt or paved concrete and unpaved stone or unpaved gravel. The roadways traveled by the coal trucks are paved

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities operating at this source.

New Emission Units and Pollution Control Equipment

There are no new facilities to be reviewed.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.
- (2) Combustion source flame safety purging on startup.
- (3) Closed loop heating and cooling systems.
- (4) Forced and induced draft cooling tower system not regulated under a NESHAP.
- (5) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (6) Paved and unpaved roads and parking lots with public access.
- (7) Coal bunker and coal scale exhausts and associated dust collector vents.
- (8) Blowdown for any of the following: sight glass: boiler: compressors: pumps: and cooling tower.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (1) OP 19-10-92-0340, issued on May 11, 1990; and
- (2) CP 037-2218, issued on January 6, 1992; and
- (3) Registered CP 037-2354, issued on February 14, 1992; and
- (4) Registered CP 037-2828, issued on February 18, 1993; and
- (5) OP 19-10-92-0341, issued on May 11, 1990.

All conditions from previous approvals were incorporated into this Part 70 permit.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the Part 70 permit be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete Part 70 permit application for the purposes of this review was received on September 25, 1996.

A notice of completeness letter was mailed to the source on November 19, 1996.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (pages 9-12).

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA.”

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential Emissions (tons/year)
PM	Greater than 250
PM-10	Greater than 250
SO ₂	Greater than 250
VOC	Less than 250
CO	Less than 250
NO _x	Greater than 250

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP's	Potential Emissions (tons/year)
HAP's	greater than 25
TOTAL	greater than 25

- (a) The potential emissions (as defined in 326 IAC 2-1.1-1(16) particulate matter less than ten (10) microns (PM₁₀), sulfur dioxide (SO₂), nitrogen oxides (NO_x), and carbon monoxide (CO) are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) Fugitive Emissions
Since this type of operation is one of the twenty-eight (28) listed source categories under 326 IAC 2-2 the fugitive particulate matter (PM) emissions are counted toward determination of PSD and Emission Offset applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 1999 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	57.9
PM-10	52
SO ₂	768
VOC	1

CO	101
NO _x	222
HAP (combined)	76.67

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this Part 70 operating permit.

	Potential to Emit (tons/year)						
Process/facility	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Boiler #1	0.350 lb/mmBtu	---	6.0 lb/mmBtu	---	---	---	---
Coal and Ash Handling System	0.03 grain per dscf	---	---	---	---	---	---
Total Emissions	greater than 100	greater than 100	greater than 100	less than 100	greater than 100	greater than 100	less than 100

County Attainment Status

The source is located in Dubois County.

Pollutant	Status
PM-10	attainment
SO ₂	attainment
NO ₂	attainment
Ozone	attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (Nox) are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Dubois County has been designated as attainment or unclassifiable for ozone.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (326 IAC 12)(40 CFR 60) applicable to this source.
- (b) The spreader stoker coal-fired boiler is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60, Subparts D, Da, Db or Dc), due to date of construction.
- (c) This source is not subject Title IV (Acid Deposition Control) of the Clean Air Act, as defined in 326 IAC 2-7-1(3). It is exempt because it does not as of November 15, 1990 serve a generator with a nameplate capacity of greater than 25 MWe.
- (d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(40

CFR 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration)

Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21, this source is a major source; however, the boiler did not undergo PSD review because it was constructed in 1967 before PSD rules became effective.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than one hundred (100) tons per year of particulate matter (PM), particulate matter less than ten (10) microns (PM₁₀), sulfur dioxide (SO₂), nitrogen oxides (NO_x), and carbon monoxide (CO). Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by July 1 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined by 326 IAC 5-1-4,
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

326 IAC 5-1-3 (Opacity Exemption)

Pursuant to 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations):

- (a) When building a new fire in a boiler, or shutting down a boiler, opacity may exceed the applicable limit established in 326 IAC 5-1-2 and stated in Section C - Opacity. However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period. Opacity in excess of the applicable limit established in 326 IAC 5-1-2 shall not continue for more than two (2) six (6)-minute averaging periods in any twenty-four (24) hour period.
- (b) When removing ashes from the fuel bed or furnace in a boiler or blowing tubes, opacity may exceed the applicable limit established in 326 IAC 5-1-2 and stated in Section C - Opacity. However, opacity levels shall not exceed sixty percent (60%) for any six (6)-minute averaging period and opacity in excess of the applicable limit shall not continue for more than one (1) six (6)-minute averaging periods in any sixty (60) minute period. The averaging periods shall not be permitted for more than three (3) six (6)-minute averaging periods in a twelve (12) hour period.
- (c) If this facility cannot meet the opacity limitations in (a) and (b) of this condition, the Permittee may submit a written request to IDEM, OAQ for a temporary alternative opacity limitation in accordance with 326 IAC 5-1-3(d). The Permittee must demonstrate that the alternative limit is needed and justifiable.

State Rule Applicability - coal-fired boiler with natural gas burner

326 IAC 6-1-9 (Nonattainment area particulate limitations: Dubois County)

Pursuant to 326 IAC 6-1-9 (Nonattainment area particulate limitations: Dubois County), particulate matter from Boiler No. 1 shall in no case exceed 0.350 lb/mmBtu heat input and 265.6 tons/year.

The electrostatic precipitator shall be in operation at all times the boiler is in operation, in order to comply with these limits.

** Many areas of the state have been redesignated as attainment subsequent to the promulgation of 326 IAC 6-1 (Nonattainment Area Limitations), making the title of the rule outdated. Dubois County is one of the counties that is no longer designated as nonattainment. However, 326 IAC 6-1-7 applies the rule regardless of designation. Since, the titles are not considered to be part of the actual administrative code there is no conflict with applying the limits contained in 326 IAC 6-1-9 to Jasper Municipal Electric Utility.*

326 IAC 7-1.1-2 (Sulfur Dioxide Emissions Limitations)

Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations), the SO₂ emissions the boiler shall not exceed 6.0 pounds per million Btu (lbs/mmBtu) when combusting coal.

The boiler is in compliance with this limit, based on the capacity of the boiler. Please see page 11 of this TSD for calculations.

Operation Standards

All coal burned, including coal treated with any additive, shall meet the ASTM definition of coal.

The burning of hazardous waste, as defined by 40 CFR 261, is prohibited in this facility. Any boiler tube chemical cleaning waste liquids, binding agent, or used oil combusted shall meet the toxicity characteristic requirements for non-hazardous waste.

Any boiler tube chemical cleaning waste liquids fired in the boiler shall only contain the cleaning solution and two full volume boiler rinses.

State Rule Applicability - ash handling

326 IAC 6-1-2 (Particulate Matter Emissions Limitations)

Pursuant to 326 IAC 6-1-2, the ash handling operations shall not allow or permit discharge to the atmosphere of any gases which contain particulate matter in excess of 0.03 grain per dry standard cubic foot (dscf).

The baghouse shall be in operation at all time the ash handling operations are in operation, in order to comply with this limit.

State Rule Applicability - fugitive emissions from vehicle traffic

326 IAC 6-4 (Fugitive Dust Emissions)

Pursuant to 326 IAC 6-4, the permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4. 326 IAC 6-4-2(4) is not federally enforceable.

Testing Requirements

Boiler #1 is required to stack test biannually for PM.

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

- (1) The boiler has applicable compliance monitoring conditions as specified below:
 - (A) Opacity Readings
 - (a) Appropriate response steps shall be taken in accordance with Section C - Compliance Response Plan - Failure to Take Response Steps whenever the opacity exceeds 15 percent. In the event of opacity exceeding 30 percent, the boiler will be shut down, if necessary, so that T-R sets or the ESP can be repaired or the cause(s) leading to T-R set outages or ESP malfunction can be corrected.
 - (b) The instrument used for determining the T-R set voltage shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.
 - (B) Preventive Inspections
 - (a) The following inspections shall be performed at least once every two years in accordance with the Preventive Maintenance Plan prepared in accordance with Section B - Preventive Maintenance Plan:
 - (1) Plate and electrode alignment;
 - (2) ESP component/controller failure;
 - (3) Air and water infiltration;
 - (b) Plate and electrode alignment measurements shall be taken whenever there is an outage of any nature lasting more than three days unless such measurements have been taken within the past six months.
 - (c) All other inspections shall be made whenever there is an outage of any nature lasting more than three days unless such measurements have been taken within the past twelve months.

- (d) Appropriate response steps for any discrepancies in the above list found during the inspection shall be taken in accordance with Section C - Compliance Response Plan - Failure to Take Response Steps.

(C) Transformer-Rectifier (T-R) Sets

The ESP shall be operated at all times when the boiler is in operation.

- (a) The ability of the ESP to control particulate emissions shall be monitored once per shift, when the unit is in operation, by measuring and recording the number of T-R sets in service.
- (b) Appropriate response steps shall be taken in accordance with Section C - Compliance Response Plan - Failure to Take Response Steps whenever the percentage of T-R sets in service falls below 90 percent availability, the Permittee shall take steps as detailed in the Compliance Response Plan for the unit.
- (c) Available T-R sets shall be operated at voltage and current levels consistent with the ESP manufacturer's specifications.
- (d) The instrument used for determining the T-R set voltage shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

(D) Visible Emissions Notations

- (a) Whenever the continuous opacity monitor is malfunctioning for a period of four (4) hours or more, visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of one (1) hour beginning four (4) hours after the start of the malfunction and repeated at least once every four (4) hours during daylight operations, in accordance with Section C - Maintenance of Monitoring Equipment, until such time that the continuous opacity monitor is back in operation or a backup monitoring unit is placed into service and calibrated.
- (b) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

(E) Multiclone and Electrostatic Precipitator Inspections

An inspection shall be performed each calendar quarter of all equipment controlling the boiler. An inspection shall be performed once every quarter. All defective equipment shall be replaced.

- (2) The coal and ash handling operations have applicable compliance monitoring conditions as specified below:

- (a) Once per shift visible emissions notations of the baghouse exhaust shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup

or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to Take Response Steps in accordance with Section C - Compliance Response Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

- (b) The Permittee shall record the total static pressure drop across the baghouse controlling the ash emissions, at least once per shift when the ash handling system is in operation. When for any one reading the range of 3.0 to 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Failure to Take Response Steps. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Failure to Take Response Steps, shall be considered a violation of this permit. The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated at least once every six (6) months.
- (c) In the event that bag failure has been observed:
 - (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B - Emergency Provisions). Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Failure to Take Response Steps, shall be considered a violation of this permit.
 - (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (d) An inspection shall be performed each calendar quarter of all bags and the mechanical exhausters controlling the ash handling operations when venting to the atmosphere. A baghouse and mechanical exhauster inspection shall be performed within three months redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

These monitoring conditions are necessary because the baghouse for the ash handling process must be operated properly to ensure compliance with 326 IAC 6-1-2 (Particulate Matter Emissions Limitations).

Conclusion

The operation of this electric generating station shall be subject to the conditions of the attached proposed Part 70 Permit No. T037-6695-00002.

Sulfur Dioxide Emission Calculations

Coal-fired boiler with a maximum capacity of 192 mmBtu/hr

$2,084.12 \text{ tons/year} \times 1 \text{ year}/365 \text{ days} \times 1 \text{ day}/24 \text{ hour} \times 2,000 \text{ lbs}/1\text{ton} = 475.83 \text{ lbs/hour}$

$475.83 \text{ lbs/hour} \times 1 \text{ hour}/192 \text{ mmBtu} = 2.48 \text{ lbs/mmBtu}$

Appendix A: Emissions Calculations
Coal Combustion: Bituminous Coal for Boilers (Spreader Stoker)

Company Name: Jasper Municipal Electric Utility
Address, City, IN, Zip: 15th and Knust Streets, Jasper, Indiana 47547
Title V: T037-6695-00002
Reviewer: Laura M. Groom
Date: March 2001

Heat Input Capacity		Heat Content of Coal	Potential Throughput	Weight %
MMBtu/hr		Btu/lb of Coal	tons/year	Sulfur in Fuel
192	#1	11,500	73,127	S = 1.5 %
				A= 10.5 %

	Pollutant									
Emission Factor in lb/ton	PM	PM10	SO2	NOx	VOC	CO	Chlorine	Hydro Chlor	Benzene	Isophorene
	12.0	7.80	57.0 (38S)	11.0	0.07	5.00	2.44E+00	1.20E+00	1.00E-03	5.80E-04
Potential Emission in tons/yr	438.8	285.2	2084.1	402.2	2.6	182.8	8.92E+01	4.39E+01	3.66E-02	2.12E-02

Emission Factors are from AP 42 (Update 9/98), (SCC 1-01-002-04/24, 1-02-002-04/24, 1-03-002-09/24)

Potential Throughput (tons/year) = Heat Input Capacity (MMBtu/hr) x 10⁶ Btu/MMBtu / Heat Content of Coal (Btu/lb) / 2000 lb/ton x 8,760 hrs/yr

Heat Content of the Coal is taken from the application

Additional emission factors for commercial/institutional and electric generation boilers are available in AP-42, Chapter 1.1.

Emission Factor for Chlorine was taken from the "Jasper Municipal Electric Utility, 1995 Emission Inventory", which was submitted with the Title V Application

Several HAPs emission factors are also available in AP-42, Chapter 1.1, depending on the type of boiler.

Emission (tons/yr) = Throughput tons per year x Emission Factor (lb/ton) / 2,000 lb/ton

Emissions (lbs/MMBtu) = 10⁶ Btu/MMBtu / Heat Content of Coal (Btu/lb) / 2000 lb/ton x Emission Factor (lb/ton)

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

Appendix A: Emissions Calculations
Coal Combustion: Bituminous Coal for Boilers (Spreader Stoker)

Company Name: Jasper Municipal Electric Utility
Address, City, IN, Zip: 15th and Knust Streets, Jasper, Indiana 47547
Title V: T037-6695-00002
Reviewer: Laura M. Groom
Date: March 2001

Heat Input Capacity		Heat Content of Coal	Potential Throughput	Weight %
MMBtu/hr		Btu/lb of Coal	tons/year	Sulfur in Fuel
132	#1	11,500	50,275	S = 1.5 %
				A= 10.5 %

	Pollutant									
	PM	PM10	SO2	NOx	VOC	CO	Chlorine	Hydro Chlor	Benzene	Isophorene
Emission Factor in lb/ton	12.0	7.80	57.0 (38S)	11.0	0.07	5.00	2.44E+00	1.20E+00	1.30E-03	5.80E-04
Potential Emission in tons/yr	301.6	196.1	1432.8	276.5	1.8	125.7	6.13E+01	3.02E+01	3.27E-02	1.46E-02

Emission Factors are from AP 42 (Update 9/98), (SCC 1-01-002-04/24, 1-02-002-04/24, 1-03-002-09/24)

Potential Throughput (tons/year) = Heat Input Capacity (MMBtu/hr) x 10⁶ Btu/MMBtu / Heat Content of Coal (Btu/lb) / 2000 lb/ton x 8,760 hrs/yr

Heat Content of the Coal is taken from the application

Additional emission factors for commercial/institutional and electric generation boilers are available in AP-42, Chapter 1.1.

Emission Factor for Chlorine was taken from the "Jasper Municipal Electric Utility, 1995 Emission Inventory", which was submitted with the Title V Application

Several HAPs emission factors are also available in AP-42, Chapter 1.1, depending on the type of boiler.

Emission (tons/yr) = Throughput tons per year x Emission Factor (lb/ton) / 2,000 lb/ton

Emissions (lbs/MMBtu) = 10⁶ Btu/MMBtu / Heat Content of Coal (Btu/lb) / 2000 lb/ton x Emission Factor (lb/ton)

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

Natural Gas Combustion Only

Small Industrial Boiler

Company Name: Jasper Municipal Electric Utility

Address, City, IN, Zip: 15th and Knust Streets, Jasper, Indiana 47547

Title V: T037-6695-00002

Reviewer: Laura M. Groom

Date: March 2001

Heat Input Capacity

MMBtu/hr

60

Potential Throughput

tons/year

526

Pollutant

	PM	PM10	SO2	NOx	VOC	CO	Formaldehyd	Hexane	Benzene
Emission Factor in lb/MMCF	7.6	7.60	0.6	50.0	5.50	84.00	7.50E-03	1.80E+00	2.10E-03
Potential Emission in tons/yr	2.0	2.0	0.2	13.1	1.4	22.1	1.97E-03	4.73E-01	5.52E-04

Methodology

All emission factors are based on normal firing

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors for NOx: Uncontrolled = 100, Low Nox Burner = 50, Low NOx Burners/Flue gas recirculation =

PM emission factors are condensable and filterable

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 M

Emission Factors are from AP42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02 and 1-03-006-03 (Supplement D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Company Name: Jasper Municipal Electric
 Plant Location: Jasper, Indiana
 County: Dubois
 Date Received: 02/01/02
 Permit Reviewer: Laura M. Groom

The application is based on a production schedule 8760 hr/yr. To obtain maximum potential, the data has been multiplied by 1.00 (except for storage emissions, which are independent of production rates).

$$8760 \text{ hr/yr} / 8760 \text{ hr/yr} = 1.00$$

* * emissions before controls * *

Storage						0.00 tons/yr	AP-42 Ch.11.2.3 Fourth ed.
Unloading raw coal	<u>7,540</u>	tons/yr x	0.02 lb/ton	/ 2000 lb/ton x	1.00 =	0.08 tons/yr	SCC #3-05-010-08 AIRS
Conveying	<u>7,540</u>	tons/yr x	0.2 lb/ton	/ 2000 lb/ton x	1.00 =	0.75 tons/yr	SCC #3-05-010-11 AIRS
Total for preparation plant:						0.83 tons/yr	
Total Emissions Before Controls:						0.83 tons/yr	

* * storage * *

Storage emissions, which result from wind erosion, are determined by the following calculations:

$$E_f = 1.7 \cdot (s/1.5) \cdot (365-p)/235 \cdot (f/15)$$

$$= 5.67 \text{ lb/acre/day}$$

$$\text{where } s = 4.9 \text{ \% silt}$$

$$p = 125 \text{ days of rain greater than or equal to 0.01 inches}$$

$$f = 15 \text{ \% of wind greater than or equal to 12 mph}$$

$$E_p (\text{storage}) = E_f \cdot sc \cdot (40 \text{ cuft/ton}) / (2000 \text{ lb/ton}) / (43560 \text{ sqft/acre}) / (25 \text{ ft}) \cdot (365 \text{ day/yr})$$

$$= 0.00 \text{ tons/yr}$$

$$\text{where } sc = \underline{0} \text{ tons storage capacity}$$

Company Name: Jasper Municipal Electric
 Plant Location: Jasper, Indiana
 County: Dubois
 Date Received: 02/01/02
 Permit Reviewer: Laura M. Groom

The application is based on a production schedule 8760 hr/yr. To obtain maximum potential, the data has been multiplied by 1.00 (except for storage emissions, which are independent of production rates).

$$8760 \text{ hr/yr} / 8760 \text{ hr/yr} = 1.00$$

* * emissions before controls * *

Storage	** see page 3 **				0.03 tons/yr	AP-42 Ch.11.2.3 Fourth ed.
Unloading raw coal	<u>74,666</u> tons/yr x	0.02 lb/ton	/ 2000 lb/ton x	1.00 =	0.75 tons/yr	SCC #3-05-010-08 AIRS
Conveying	<u>74,666</u> tons/yr x	0.2 lb/ton	/ 2000 lb/ton x	1.00 =	7.47 tons/yr	SCC #3-05-010-11 AIRS
Total for preparation plant:					8.24 tons/yr	
Total Emissions Before Controls:					8.24 tons/yr	

* * storage * *

Storage emissions, which result from wind erosion, are determined by the following calculations:

$$E_f = 1.7 \cdot (s/1.5) \cdot (365-p)/235 \cdot (f/15)$$

$$= 5.67 \text{ lb/acre/day}$$

$$\text{where } s = 4.9 \% \text{ silt}$$

$$p = 125 \text{ days of rain greater than or equal to 0.01 inches}$$

$$f = 15 \% \text{ of wind greater than or equal to 12 mph}$$

$$E_p (\text{storage}) = E_f \cdot sc \cdot (40 \text{ cuft/ton}) / (2000 \text{ lb/ton}) / (43560 \text{ sqft/acre}) / (25 \text{ ft}) \cdot (365 \text{ day/yr})$$

$$= 0.03 \text{ tons/yr}$$

$$\text{where } sc = \underline{810} \text{ tons storage capacity}$$